

# LOGISTICS

## COMPLETE ROUND CHARTS

### PROPELLANT

### ACTUATED DEVICES

DEPARTMENT OF ARMY  
HEADQUARTERS, UNITED STATES ARMY MATERIEL  
5001 Eisenhower Ave, Alexandria, VA 22304

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Logistics

COMPLETE ROUND CHARTS--  
PROPELLANT ACTUATED DEVICES

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1. Purpose. This pamphlet provides a source of information for personnel whose official duties involve the use of data concerning components of propellant actuated devices. The information contained in these charts is constantly subject to change and therefore should be considered as reference material only. It is not to be construed as directive in nature, or as authority for official action.

2. Scope. This pamphlet is the first of a series of complete round charts on conventional ammunition. It contains basic source data for the items of propellant and cartridge actuated devices currently in the supply system. Commercial propellant and cartridge actuated items with military applications have not been included. The data contained in this pamphlet covers all types of classification as described in AR 71-6.

3. General. The first aircraft pilot catapults and associated devices powered by propellants were called "Cartridge Actuated Devices" (CAD), a name that arose from the similarity in appearance between their propellant containers and the cartridge case for an ordinary rifle. As new applications were developed, this similarity disappeared, but the name continued to be used. Ordnance Technical Committee Minutes (OTCM) 37418, 12 April 1960, was published

\*This pamphlet supersedes AMCP 700-3-1, 27 April 1967.

to change the name of future developments of these items to "Propellant Actuated Devices" (PAD), it being considered that this name more nearly expressed their principal characteristics.

4. Abbreviations. a. AMCTCM (Army Materiel Command Technical Committee Minutes (Item No.) ).

b. HES (Hercules Powder Company symbol).

c. OTCM (Ordnance Technical Committee Minutes (Item No.) ).

5. Errors and omissions. Errors, omissions, and recommended changes to this pamphlet will be reported on DA Form 2028 (Recommended Changes to DA Publications). Completed forms will be forwarded direct to the Commander, Frankford Arsenal, ATTN: SARFA-J4000, Philadelphia, Pennsylvania 19137.

APPENDIX, AMMUNITION MAINTENANCE CHARTS  
CHART 1 CATAPULTS

ITEM: CATAPULT, AIRCRAFT EJECTION SEAT									
LINE NO.	TYPE CLASSIFICATION	AMCTCM OR OTCM NO.	NOMENCLATURE	WEIGHT LOADED (LB.)	COMPLETE ASSEMBLY DRAWING NO.	ITEM SPECIFICATION	METAL PARTS DRAWING NO.	DRAWING NO.	DESIGNATION
1	STD	33977	M1A1	8.24	94-1-1	RP-PD-86	94-1-2	D8593353	M28A1
2	STD	32976	Tng. M2	8.24	07141955	—	—	D8593630	M30A1
3	STD	36778	M3A1	22	F8593635	MIL-C-46587	F8593636	D8593632	M36
4	STD	36778	M4A1	6.1	F8593669	MIL-C-46627	F8593670	D8593745	M37
5	STD	36779	M5A1	8.1	F8593686	MIL-C-46942	F8593687	D8593353	M28A1
6	STD	37578	Tng. M6A1	31.5	94-1-30	FA-PD-M1-1901	—	D8594084	M57
7	STD	38065	M8	35	D8596947	MIL-C-60640	D8596953	Note 1.	—
8	STD	38065	M9	30	F8596866	MIL-C-46395	F8596883	Note 1.	—
9	STD	38065	M10	28	F8596924	MIL-C-46950	F8596929	Note 1.	—
10	—	—	XM12	18	F8597287	MIL-C-46589	F8596973	Note 1.	—
11	STD	38065	M19	35	F10521316	MIL-C-46567	F10521317	Note 1.	—
12	—	—	XM25	28	F10524418	MIL-C-60115	F10524417	Note 1.	—
13	STD	—	M38	33	F10551436	—	F10551426	Note 1.	M270
14	—	—	CKU-2/A	28.0	F11743866	—	F11743867	Note 1.	—
15	—	—	CKU-3/A	—	—	—	—	—	—
16	—	—	CKU-4/A	—	—	—	—	—	—
17	—	—	CKU-5/A	21.0	F11743975	—	F11743976	Note 1.	—
18	—	—	CKU-6/A	—	—	—	—	—	—

APPENDIX, AMMUNITION MAINTENANCE CHARTS  
CHART 1 CATAPULTS

CARTRIDGE					PACKING			
POWDER CHARGES				ASSEMBLED CARTRIDGE APPROX. WEIGHT GRAINS	CARTRIDGE		COMPLETE ASSEMBLY	
PROPELLANT		IGNITER			INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.	INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.
TYPE	ADVISORY WEIGHT GRAINS	GRADE	ADVISORY WEIGHT GRAINS					
M-6	1304±15	A-1	65±2	2360	F8797308	F8797303	F8797304	F8797305
M-6	1270-15	A-1	50-2	2236	F8797637	F8797638	F8797304	F8797305
H-8	3076±23	A-1	65±2	4467	F8797388	F8797387	F8797431	F8797432
H-8	810±15	A-4	40±2	1666	F8797379	F8797380	C8797383	C8797384
M-6	1304±15	A-1	65±2	2360	F8797308	F8796303	F8797377	F8797378
M-2	416±30	A-1	27±2	2227	F8796529	F8796526	F8797728	F8797729
—	—	—	—	—	—	—	C8826677	C8826678
—	—	—	—	—	—	—	C8826679	C8826680
—	—	—	—	—	—	—	C8826681	C8826676
—	—	—	—	—	—	—	C8836947	C8836948
—	—	—	—	—	—	—	C8826677	C8826678
—	—	—	—	—	—	—	—	—
TPL 3014	—	2R	62+1	1540	—	—	C9254759	C9254760
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—

APPENDIX, AMMUNITION MAINTENANCE CHARTS  
CHART 1 CATAPULTS

## NOTE 1

CATAPULT DESIGNATIONS	EXPLOSIVE COMPONENTS		
	ASSEMBLY DRAWING NUMBER	INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.
M8, M9, M10, XM12, M19, XM25 M38	PRIMARY IGNITER F8596876 CARTRIDGE, IMPULSE, M270 F10551431	C8856866	C8856867
M8, M9, M10 XM12, M19, XM25	AUXILIARY IGNITER D8596874	C8855878	C8856879
M8, XM12, M19 M9 M10, XM25	LOADED STRIP HOLDER F8596951 F8596873 F8596927	C8856874 C8856872 C8856870	C8856875 C8856873 C8856871
M8, XM12, M19 M9 M10, XM25	INHIBITED PROPELLANT GRAIN F8597594 F8597595 F8597596	C8858559 C8858559 C8858559	C8858560 C8858560 C8858560
XM39 XM41 CKU 2/A CKU 5/A	BONDED PROPELLANT GRAIN C10551460 F11740605	C9272719 C9272719	C9272721 C9272721

CHART 2 CUTTERS

ITEM: CUTTER, CARTRIDGE ACTUATED									
LINE NO.	TYPE CLASSIFICATION	AMCTCM OR OTCM	NOMENCLATURE	WEIGHT LOADED (LB.)	COMPLETE ASSEMBLY DRAWING NO.	ITEM SPECIFICATION	METAL PARTS DRAWING NO.	DRAWING NO.	DESIGNATION
1	STD	37989	M8	1.18	F10520566	MIL-C-60105	F10520567	D10520599	M122
2	STD	38066	DELAY, M9	.27	D10520535	MIL-C-60262	D10520540	D10520297	M129
3	—	—	DELAY, XM10	.27	D10520536	MIL-C-60263	D10520540	D10520497	XM130
4	—	—	DELAY, XM11	.27	D10520537	MIL-C-60264	D10520540	D10520499	XM131
5	—	—	DELAY, XM12	.27	D10520538	MIL-C-60265	D10520540	D10520501	XM132
6	STD	38066	DELAY, M13	.27	D10520539	MIL-C-60266	D10520540	D10520503	M133
7	STD	38013	M21	—	D8875978	MIL-C-46992	—	C8875995-1	—
8	STD	38013	M22	—	D8875979	MIL-C-46992	—	C8875995-2	—
9	—	—	DELAY, XM23	.27	D10524020	MIL-C-46945	D10520540	D10520297	M129
10	—	—	XM24	.15	FX10534822	FA-PD-M1-2684	—	X10535471	—
11	—	—	XM33	3.4	F11751118	—	—	D11751119	—

CHART 2 CUTTERS

CARTRIDGE					PACKING			
POWDER CHARGES				ASSEMBLED CARTRIDGE APPROX. WEIGHT GRAINS	CARTRIDGE		COMPLETE ASSEMBLY	
PROPELLANT		IGNITER			INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.	INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.
TYPE	ADVISORY WEIGHT GRAINS	GRADE	ADVISORY WEIGHT GRAINS					
—	—	A-4	23±1	427	C8826731	C8826730	C8835919	C8835920
—	—	A-4	5.4 - .1	250	C8864166	C8864167	C8864327	C8864326
—	—	A-4	5.4 - .1	250	C8864166	C8864167	C8864327	C8864326
—	—	A-4	5.4 - .1	250	C8864166	C8864167	C8864327	C8864326
—	—	A-4	5.4 - .1	250	C8864166	C8864167	C8864327	C8864326
—	—	A-4	5.4 - .1	250	C8864166	C8864167	C8864327	C8864326
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	A-4	5.4 - .1	250	C8864166	C8864167	C8864327	C8864326
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—



ITEM: INITIATOR, CARTRIDGE ACTUATED								
LINE NO.	TYPE CLASSIFICATION	AMCTCM OR OTCM NO.	NOMENCLATURE	WEIGHT LOADED (LB.)	COMPLETE ASSEMBLY DRAWING NO.	ITEM SPECIFICATION	METAL PARTS DRAWING NO.	DRAWING NO.
1	STD STD	—	M3A2 M3A1C	.90 .90	F8595821 F10524101	MIL-I-46625	D8595822 D8595822	D8594157
2	STD	35155	DELAY, M4	1.00	F8595816	MIL-I-60279	D8595817	D8594075
3	STD	36641	M5A2	.90	F8596170	MIL-I-46576	D8596171	D8594157
4	STD	35756	DELAY, M6A1	1.00	F8593316	MIL-I-60554	D8593315	D8594075
5	STD	36253	M8	2.20	F10534132	MIL-I-50634	F10534133	D8593492
6	STD	36253	M9	1.80	F10523303	MIL-I-60635	F10522665	D8593496
7	STD	36113	DELAY, M10	1.10	F8594861	MIL-I-60278	D8594862	D8593274
8	STD	36184	DELAY, M12	1.00	F8593159	MIL-I-46619	D8595817	D8593162
9	STD	38128	DELAY, M14	.39	F10520861	FA-PD-MI-2495	D10520862	D10520085
10	STD	38128	DELAY, M15	.39	F10520852	MIL-I-60869	D10520858	D10520085
11	STD	38128	DELAY, M16	.39	F10521003	FA-PD-MI-2509	D10520862	D10520087
12	—	—	DELAY, XM17	.39	F10520994	FA-PD-MI-2510	D10520858	D10520086
13	—	—	DELAY, XM18	.39	F10520865	FA-PD-MI-2497	D10520862	D10520087
14	—	—	DELAY, XM19	.39	F10520854	MIL-I-60874	D10520858	D10520087
15	—	—	DELAY, XM20	.39	F10520871	FA-PD-MI-2511	D10520862	D10520088
16	STD	—	DELAY, M21	.39	F10520996	MIL-I-50315	D10520858	D10520088
17	—	—	DELAY, XM22	.39	F10520866	FA-PD-MI-2499	D10520862	D10520089
18	—	—	DELAY, XM23	.39	F10520856	FA-PD-MI-2500	D10520858	D10520089
19	—	—	DELAY, XM24	.39	F10521002	FA-PD-MI-2513	D10520862	D10519995
20	—	—	DELAY, XM25	.39	F10520998	FA-PD-MI-2514	D10520858	D10519995
21	STD	37612	DELAY, M26	1.00	F8597941	MIL-I-60277	D8593315	D8596123
22	STD	37417	M27	.33	F10520550	MIL-I-60283	D10520551	D8597230
23	STD	37577	M28	.33	F10520555	MIL-I-60281	D10520556	D8597230
24	STD	37417	M29	1.60	FD20737	MIL-I-60629	FD20737	D8594157
25	STD	37577	DELAY, M30	1.10	F8595400	MIL-L-60528	D10520225	D8593274

CARTRIDGE						PACKING			
DESIG- NATION	POWDER CHARGES				ASSEMBLED CARTRIDGE APPROX WEIGHT GRAINS	CARTRIDGE		COMPLETE ASSEMBLY	
	PROPELLANT		IGNITER			INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.	INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.
	TYPE	ADVISORY WEIGHT GRAINS	GRADE	ADVISORY WEIGHT GRAINS					
M73	HES 5808	46-6	A-4	20-3	146	C8797376	C8797375	F8796541	F8796542
M46	M-2	25.5 + .1	A-4	16.5 + .1	370	C8845190	C8845191	C8796826	C8796827
M73	HES 5808	46-6	A-4	20-3	146	C8797376	C8797375	F8796541	F8796542
M46	M-2	25.5 + .1	A-4	16.5 + .1	370	C8845190	C8845191	C8796826	C8796827
M68	M-2	134 ± 5	A-4	15.5 ± .3	49.9	F8797450	F8797454	F8796726	F8796727
M69	M-2	134 ± 5	A-4	15.3 ± .3	59.3	C8797470	C8797469	F8797660	F8797661
M70	HES 5808	50-6	A-4	17.5 - .5	403	C8799621	C8799620	C8798142	C8798143
M71	M-2	25.1 ± .1	A-4	16.5 + .1	370	C8845190	C8845191	C8796826	C8796827
M84	M-10	21-2	A-4	6- .5	399	C8864168	C8864169	C8846785	C8846786
M84	M-10	21-2	A-4	6- .5	399	C8864168	C8864169	C8846787	C8846788
XM86	M-10	22-3	A-4	6- .5	376	C8864168	C8864169	C8846785	C8846786
M85	HES 5808	29-4	A-4	12-1	397	C8864168	C8864169	C8846787	C8846788
XM86	M-10	22-3	A-4	6- .5	376	C8864168	C8864169	C8846785	C8846786
XM86	M-10	22-3	A-4	6- .5	376	C8864168	C8864169	C8846787	C8846788
M87	HES 5808	26 + 4	A-4	12 - 1	397	C8864168	C8864169	C8846785	C8846786
M87	HES 5808	26 + 4	A-4	12 - 1	397	C8864168	C8864169	C8846787	C8846788
XM88	M-10	21-2	A-4	6- .5	399	C8864168	C8864169	C8846785	C8846786
XM88	M-10	21-2	A-4	6- .5	399	C8864168	C8864169	C8846787	C8846788
M89	HES 5808	29 - 4	A-4	12 - 1	397	C8864168	C8864169	C8846785	C8846786
M89	HES 5808	29 - 4	A-4	12 - 1	397	C8864168	C8864169	C8846787	C8846788
M90	M-2	25.1 ± .1	A-4	16.5 + .1	—	C8845190	C8845191	C8796826	C8796827
M91	HES 5808	29 - 4	A-4	12 - 1	162	C8837884	C8837885	C8830984	C8830985
M91	HES 5808	29 - 4	A-4	12 - 1	162	C8837884	C8837885	C8830992	C8830993
M73	HES 5808	46 - 6	A-4	20 - 3	146	C8797376	C8797375	C8837442	C8837443
M70	HES 5808	50 - 6	A-4	17.5 - .5	403	C8799621	C8799620	C8798142	C8798143

ITEM: INITIATOR, CARTRIDGE ACTUATED									
LINE NO.	TYPE CLASSIFICATION	AMCTM OR OTCM NO.	NOMENCLATURE	WEIGHT LOADED (LB.)	COMPLETE ASSEMBLY DRAWING NO.	ITEM SPECIFICATION	METAL PARTS DRAWING NO.	DRAWING NO.	DESIGNATION
26	STD	37577	DELAY, M31	1.10	F8595251	MIL-I-60639	D8594862	D8593312	M93
27	STD	37577	DELAY, M32	1.10	F8595409	MIL-I-60284	D10520225	D8593312	M93
28	STD	37417	DELAY, M33	1.00	F8595248	MIL-I-60282	D8593315	D8593162	M71
29	STD	37612	DELAY, M42	1.10	F10520220	MIL-I-60511	D8594862	D8596114	M113
30	STD	37612	DELAY, M43	1.10	F10520224	MIL-I-60892	D10520225	D8596114	M113
31	STD	37612	DELAY, M44	1.00	F10520228	MIL-I-60638	D8593315	D8596110	M114
32	STD	37612	DELAY, M45	1.00	F8596101	MIL-I-60513	D8595817	D8596110	M114
33	STD	37708	DELAY, M49	1.00	F10520232	MIL-I-60514	D8595817	D8596123	M90
34	STD	38128	DELAY, M51	.39	F8597920	MIL-I-60867	D10520909	D10519995	M89
35	STD	38128	DELAY, M52	.39	F10522484	—	D10522486	D10520335	M128
36	STD	5068	M53	.33	F10520619	MIL-I-60286	D10520621	D8597230	M91
37	STD	38128	DELAY, M54	.39	F10520864	FA-PD-MI-2508	D10520862	D10520335	M128
38	—	—	T31E1	.33	F10520471	MIL-I-60534	D10520472	D8597230	M91
39	—	—	DELAY, XM64	.39	F10522498	MIL-I-60507	D10522500	D10522709	XM146
40	STD	38067	DELAY, M72	1.10	F10521631	MIL-I-60512	D8594862	D10521632	M155
41	STD	—	M80	1.80	F10522664	MIL-I-60642	F10522665	D8593496	M69
42	—	—	XM86	0.33	F10522503	FA-PD-MI-2562	D10522505	D10522707	XM169
43	STD	—	M87	0.33	F10522697	MIL-I-60846	D10522695	D10522651	M173
44	STD	—	DELAY, M88	0.39	F10522384	FA-PD-MI-2586	D10520909	D10522656	M174
45	STD	38128	DELAY, M89	0.39	F10522698	MIL-I-60529	D10522696	D10522660	M175
46	—	—	DELAY, XM92	1.10	F10551995	MIL-I-14889	D10520225	D10521632	M155
47	—	6071	M98	0.33	F10535456	MIL-I-60221	D10520551	D10535460	M201
48	STD	5068	M99	0.33	F10520405	MIL-I-60292	D10520406	D8597230	M91
49	STD	—	M104	.15	D10551446	MIL-I-50374	D10551447	—	—
50	STD	9414	M107	0.33	F10535975	MIL-I-60594	D10535977	D8597230	M91

CARTRIDGE					PACKING			
POWDER CHARGES				ASSEMBLED CARTRIDGE APPROX. WEIGHT GRAINS	CARTRIDGE		COMPLETE ASSEMBLY	
PROPELLANT		IGNITER			INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.	INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.
TYPE	ADVISORY WEIGHT GRAINS	GRADE	ADVISORY WEIGHT GRAINS					
M-5	55 - 6	A-4	16 - 1	388	C8799621	C8799620	C8798142	C8798143
M-5	55 - 6	A-4	16 - 1	388	C8799621	C8799620	C8798142	C8798143
M-2	25.1 ± .1	A-4	16.5 ± .1	370	C8845190	C8845191	C8796826	C8796827
HES 5808	50 - 6	A-4	17.5 - .5	—	C8799621	C8799620	C8798142	C8798143
HES 5808	50 - 6	A-4	17.5 - .5	—	C8799621	C8799620	C8798142	C8798143
M-2	25.1 ± .1	A-4	16.5 ± .1	362	C8845190	C8845191	C8796826	C8796827
M-2	25.1 ± .1	A-4	16.5 ± .1	362	C8845190	C8845191	C8796826	C8796827
M-2	25.1 ± .1	A-4	16.5 ± .1	—	C8845190	C8845191	C8796826	C8796827
HES 5808	29 - 4	A-4	12 - 1	397	C8864168	C8864169	C8846787	C8846788
HES 5808	29 - 4	A-4	12 - 1	408	C8864168	C8864169	C8846785	C8846786
HES 5808	29 - 4	A-4	12 - 1	162	C8837884	C8837885	C8830994	C8830995
HES 5808	29 - 4	A-4	12 - 1	408	C8864168	C8864169	C8846785	C8846786
HES 5808	29 - 4	A-4	12 - 1	162	C8837884	C8837885	C8830994	C8830995
M-10	21 - 2	A-4	6 - .5	399	C8864168	C8864169	C8846785	C8846786
HES 5808	50 - 6	A-4	17.5 - .5	398	C8799621	C8799620	C8798142	C8798143
M-2	134 ± 5	A-4	15.3 ± .3	59.3	C8797470	C8797469	F8797660	F8797661
M-10	20 ± 1	A-4	6 - .5	146	C8837884	C8837885	C8830984	C8830985
M-10	31 ± 1	A-4	6 - .5	188	C8837884	C8837885	C8830984	C8830985
M-10	31 - 4	A-4	6 - 1	410	C8864168	C8864169	C8846787	C8846788
M-10	31 - 4	A-4	6 - 1	435	C8864168	C8864169	C8846785	C8846786
HES 5808	50 - 6	A-4	17.5 - .5	398	C8799621	C8799620	C8798142	C8798143
2D	29 ± 3	—	—	160	C8837884	C8837885	C8830984	C8830985
HES 5808	29 - 4	A-4	12 - 1	162	C8837884	C8837885	C8830984	C8830985
B/KNO <sub>3</sub> TJA	24 - 6	—	—	—	—	—	C9252247	C9252248
HES 5808	29 - 4	A-4	12 - 1	162	C8837884	C8837885	C8830984	C8830985

ITEM: INITIATOR, CARTRIDGE ACTUATED									
LINE NO.	TYPE CLASSIFICATION	AMCTCM OR OTCM NO.	NOMENCLATURE	WEIGHT LOADED (LB.)	COMPLETE ASSEMBLY DRAWING NO.	ITEM SPECIFICATION	METAL PARTS DRAWING NO.	DRAWING NO.	DESIGNATION
51	STD	—	DELAY, MI10	.39	F10551587	MIL-I-60886	D10520858	D10551590	M271
52	STD	—	MI11	.42	F11731738	—	—	D10551446	MI04
53	STD	—	MI12	—	F11731739	—	—	D10551446	MI04
54	STD	—	DELAY, MI13	.50	F11731474	MIL-I-50714	—	D10551446	MI04
55	STD	—	DELAY, MI14	1.10	F11726503	MIL-I-14885	D8594862	D10536005	M231
56	—	—	DELAY, XM120	1.10	F11744286	—	D10520225	D11730546	XM293
57	STD	—	JAU-2/A25	.41	F11731494	MIL-I-50693	—	D10551446	MI04
58	STD	—	DELAY, JAU-3-A25	.50	F11731674	MIL-I-50731	—	D10551446	MI04
59	STD	—	DELAY, JAU-4/A25	.50	F11731740	—	—	D10551446	MI04
60	STD	—	JAU-5/A25	.42	F11731481	—	—	D10551446	MI04
61	—	—	DELAY, JAU-6/A25	.51	F11731735	—	—	D10551446	MI04
62	—	—	DELAY, JAU-7/125	.51	F11731736	—	—	D10551446	MI04
63	STD	—	JAU-8/A25	.42	F11731737	—	—	D10551446	MI04
64	—	—	DELAY, JAU-9/A	.50	F11731482	—	—	D10551446	MI04
65	—	—	DELAY, JAU-10/A	.50	F11731483	—	—	D10551446	MI04
66	—	—	DELAY, JAU-11/A	.51	F11731467	—	—	D10551446	MI04
67	—	—	DELAY, JAU-12/A	.51	F11731470	—	—	D10551446	MI04

CARTRIDGE					PACKING			
POWDER CHARGES				ASSEMBLED CARTRIDGE APPROX. WEIGHT GRAINS	CARTRIDGE		COMPLETE ASSEMBLY	
PROPELLANT		IGNITER			INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.	INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.
TYPE	ADVISORY WEIGHT GRAINS	GRADE	ADVISORY WEIGHT GRAINS					
HES 5808	26 + 4	A-4	12 - 1	397	C8864168	C8864169	C8846787	C8846788
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	C9252573	C9252574
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	C9252573	C9252574
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	D9280891	D9280892
HES 5808	50 - 6	A-4	17.5 - .5	398	C8799621	C8799620	C8798142	C8798143
HES 5808	50 - 6	A-4	17.5 - .5	398	C8799621	C8799620	C8798142	C8798143
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	D9280894	D9280895
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	D9280891	D9280892
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	D9280891	D9280892
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	C9252573	C9252574
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	C9256498	C9256499
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	C9256498	C9256499
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	C9252573	C9252574
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	D9280891	D9280892
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	D9280891	D9280892
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	D9280891	D9280892
B/KNO <sub>3</sub> IIA	24 - 6	—	—	—	—	—	D9280891	D9280892

## CHART IV REMOVERS

ITEM: REMOVER, AIRCRAFT CANOPY								
LINE NO.	TYPE CLASSIFICATION	AMCTCM OR OTCM	NOMENCLATURE	WEIGHT LOADED (LB.)	COMPLETE ASSEMBLY DRAWING NO.	ITEM SPECIFICATION	METAL PARTS DRAWING NO.	DRAWING NO.
1	STD	—	M1A3	2.10	F8593731	MIL-R-46631	F8593732	08593625
2	STD	34256	M2A1	4.40	F94-2-8	RP-PD-88	F94-2-9	08593735
3	STD	36778	M3A1	4.40	F8593701	MIL-R-46617	F8593702	08593735
4	STD	37707	M4	3.80	F8595439	MIL-R-46656	F8595441	08593625
5	STD	37707	M5	3.80	F8595440	MIL-R-60112	F8595441	010521300
6	STD	38019	M8	25.	F10522538	FA-PD-MI-2419	FF9832	010521960
7	STD	38019	M9	30.	F10522539	FA-PD-MI-2435	FF9878	010521965

CHART IV REMOVERS

CARTRIDGE						PACKING			
DESIG- NATION	POWDER CHARGES				ASSEMBLED CARTRIDGE APPROX. WEIGHT GRAINS	CARTRIDGE		COMPLETE ASSEMBLY	
	PROPELLANT		IGNITER			INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.	INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.
	TYPE	ADVISORY WEIGHT GRAINS	GRADE	ADVISORY WEIGHT GRAINS					
M29A2	M-2	124 - 6	A-4	25 - 1	808	F8797307	F8797306	F8797268	F8797269
M31A1	M-2	351 - 3	A-1	24 - 1	900	C8797725	C8797267	B8797439	B8797440
M31A1	M-2	351 - 3	A-1	24 - 1	900	C8797725	C8797267	C8797385	C8797386
M29A2	M-2	124 - 6	A-4	25 - 1	808	F8797307	F8797306	C8823715	C8823716
M120	M-2	200 - 5	A-4	25 - 1	855	C8845188	C8845189	C8823715	C8823716
M150	M-10	216 - 6	A-4	25 - 2	880	C8837888	C8837889	C8837890	C8837891
M151	M-10	578.7 + 15	A-4	65 - 3	1740	C8837886	C8837887	C8846599	C8846598



## CHART V THRUSTERS

ITEM: THRUSTER, CARTRIDGE ACTUATED								
LINE NO.	TYPE CLASSIFICATION	AMCTCM OR OTCM NO.	NOMENCLATURE	WEIGHT LOADED (LB.)	COMPLETE ASSEMBLY DRAWING NO.	ITEM SPECIFICATION	METAL PARTS DRAWING NO.	DRAWING NO.
1	STD	36931	M1A2	3.2	F8593854	MIL-T-45499	F8593855	D8593889
2	STD	37092	M2A2	4	F8593873	MIL-T-46626	F8593874	D8593275
3	STD	—	M3A3	1	F10522629	MIL-T-46616	F10522631	D8593276
4	STD	—	M5A2	3.6	F8594746	MIL-T-46659	F8593747	D8594157
5	STD	36253	M6	1	F8594149	MIL-T-60637	F8593752	D8597730
6	STD	36355	M7	1.08	F8593277	MIL-T-60227	F8593278	D8597730
7	STD	37896	M9	1	F10520478	MIL-T-60101	F10520479	D8595513
8	STD	37896	M11	0.94	F10521565	MIL-T-46948	F10521566	D10521610
9	STD	37989	M13	1.07	F10520971	MIL-T-46604	F10520974	D8595513
10	STD	37579	M15	5	F10520875	MIL-T-46591	F10520876	D8596708
11	STD	37990	M16	1.6	F10521321	MIL-T-46692	F10521322	D8596426
12	STD	—	M17	13	D8597496	MIL-T-60249	D8597497	D8593275
13	STD	—	M18	12	D8597514	MIL-T-60246	D8597515	D8593275
14	STD	37989	M19	1.07	F10520987	MIL-T-46603	F10520989	D8595513
15	STD	—	M20A1	3.6	F10533856	MIL-T-60129	F10533858	D10520589
16	STD	—	M25	3.6	F10534176	MIL-T-60201	C10534178	D10520589

## CHART V THRUSTERS

CARTRIDGE						PACKING			
DESIG- NATION	POWDER CHARGES				ASSEMBLED CARTRIDGE APPROX. WEIGHT GRAINS	CARTRIDGE		COMPLETE ASSEMBLY	
	PROPELLANT		IGNITER			INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.	INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.
	TYPE	ADVISORY WEIGHT GRAINS	GRADE	ADVISORY WEIGHT GRAINS					
M42A1	M-10	31 - 3	A-4	20 - 2	140	C8797435	C8797436	C8797631	C8797632
M43	H-8	90 - 5	A-4	24 - 2	766	F8797443	F8797442	F8797633	F8797634
M44A1	H-8	33 - 2	A-4	20 - 2	139	C8797373	C8797441	C8796719	C8797270
M73	HES 5808	46 - 6	A-4	20 - 3	146	C8797376	C8797375	C8797741	C8797742
M67A1	—	—	A-4	23 ± .5	96	F8797726	F8797727	C8797438	C8797437
M67A1	—	—	A-4	23 ± .5	96	F8797726	F8797727	F8796480	F8796479
M119	M-6	45 ± 1	A-4	3 ± .1	159	C8830980	C8830981	C8845196	C8845197
M141	M-2	7.1 - .2	A-4	1.54 - .2	74	C8845184	C8845185	C8800969	C8800970
M119	M-6	45 ± 1	A-4	3 ± .1	159	C8830980	C8830981	C8836128	C8836129
M94	H-8	170 ± 5	A-4	39 - 1.5	719	C8797725	C8797267	C8858441	C8858440
M146	M-2	7.7 ± .2	A-4	1.5 ± .1	—	C8830980	C8830981	C8845244	C8845248
M43	H-8	90 - 5	A-4	24 - 2	766	F8797443	F8797442	C8848819	C8848818
M43	H-8	90 - 5	A-4	24 - 2	766	F8797443	F8797442	C8848865	C8848864
M119	M-6	45 ± 1	A-4	3 ± .1	159	C8830980	C8830981	C8836128	C8836129
M127	T-18	85 ± 1	A-4	15.5 ± .1	243	C8845187	C8845186	C8797741	C8797742
M127	T-18	85 ± 1	A-4	15.5 ± .1	243	C8845187	C8845186	C8797741	C8797742

## CHART VI MISCELLANEOUS PAD

ITEM: AS LISTED								
LINE NO.	TYPE CLASSIFICATION	AMCTCM OR OTCM NO.	NOMENCLATURE	WEIGHT LOADED (LB.)	COMPLETE ASSEMBLY DRAWING NO.	ITEM SPECIFICATION	METAL PARTS DRAWING NO.	DRAWING NO.
1	STD	36216	RELEASE, FIRING PIN, M1A1	.80	94-5-1	FA-PD-M1-2273	—	—
2	—	—	GENERATOR, GAS PRESSURE, M17	2.50	F10522490	MIL-G-60624	F10522492	D8593745
3	STD	—	IGNITION ELEMENT, ELECTRICAL M21	.016	C10523566	MIL-I-60232	—	NOTE 1
4	STD	—	IGNITION ELEMENT, ELECTRICAL M55	.014	D10534225	MIL-I-60231	—	NOTE 1
5	STD	35546	LOCKING ASSEMBLY, M139	26.	94-1-44	FA-PD-M1-1903	—	—
6	—	—	EJECTOR, PARACHUTE, XM233	—	F10536009	MIL-E-60591	—	—
7	—	—	RELEASE, CARGO PARACHUTE 5000 LB. CAPACITY	—	11-1-71	MIL-R-43003	—	D8886478

## NOTE 1

IGNITION ELEMENT, ELECTRICAL DESIGNATION	EXPLOSIVE COMPONENTS						
	PRIMER MIXTURE			BALL PROPELLANT			
	DRAWING NO.	DESIGNATION	WEIGHT GRAINS	DESIGNATION	SPECIFICATION	TYPE	CLASS
M55	A10523576	FA957	1.3 + .2	—	—	—	—
M21	A10523576	FA957	1.3 + .2	WC 846	MIL-P-3984	11	3

CHART VI MISCELLANEOUS PAD

CARTRIDGE						PACKING			
DESIG- NATION	POWDER CHARGES				ASSEMBLED CARTRIDGE APPROX. WEIGHT GRAINS	CARTRIDGE		COMPLETE ASSEMBLY	
	PROPELLANT		IGNITER			INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.	INNER PACK DRAWING NO.	OUTER PACK DRAWING NO.
	TYPE	ADVISORY WEIGHT GRAINS	GRADE	ADVISORY WEIGHT GRAINS					
—	—	—	—	—	—	—	—	F8797627	C8797626
M37	H-8	810 ± 15	A-4	40 ± 2	1666	F8797379	F8797380	C8864325	C8864324
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	F8797074	F8797073
INIT. XM107	—	—	—	—	—	—	—	—	—
XM252	—	—	—	—	—	—	—	—	—

(AMSAR-MAS)

FOR THE COMMANDER:

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